

A B S T R A C TTITLE:

Internal combustion engine with supercharging and sparking plug with precombustion chamber, ignition method and application thereof.

APPLICANT:

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- 5     The invention concerns an internal combustion engine with at least one engine member, the engine member including a combustion chamber (4) of a combustible mixture with fuel components and oxidants, an ignition system of the combustible mixture by an igniter (7), sequential let-through devices for the fuel and oxidant components and for the
- 10    combustion products, the engine being of the supercharging type by boost pressure of the oxidant components upstream of the engine member. According to the invention, the ignition system includes a closed head (6)(12a) substantially spherical enclosing the igniter in a precombustion chamber, the head including a set of orifices (5) intended
- 15    to communicate the combustion chamber and the precombustion chamber so that combustible mixture may flow into the precombustion chamber. In a variation of the invention, at least one of the let-through devices is a direct injector in the combustion chamber for, in all or in part, the fuel components and/or fuels. A method and an application are also
- 20    described.

FIGURE 4